

Course Syllabus of General surgery(Block)

Faculty : Medicine and health sciences
Department: Surgery
Program : Bachelor of Medicine and Surgery

| I. General information about the course instructor : | | | | | | | |
|--|--------------------------|-------------------------------|-----|-----|-----|-----|-----|
| Name | Dr.WaleedGilan | Office Hours(3 Hours Weekly) | | | | | |
| Location & phone number | 772116268 | Sat | Sun | Mon | Tue | Wed | Thu |
| Email | Waleedgilan112@yahoo.com | 1 | | | 1 | 1 | |

| II. General information about the course | | | | | | | |
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| 1. | Course Title : | General Surgery (Block) | | | | | |
| 2. | Course Code and Number : | BMD40 | | | | | |
| 3. | Credit Hours: | Credit Hours | | | | | Total |
| | | Theoretical | Seminar/Tutorial | Practical | Clinical | Training | |
| | | 12 | - | - | 3 | - | 15 |
| 4. | Level and Semester: | 6th year-1st semester & 2nd semester (one for girls and one for boys) | | | | | |
| 5. | Pre-requisites : | System blocks in the 2nd ,3rd & 4th years | | | | | |
| 6. | Co-requisites : | None | | | | | |
| 7. | Program in which the course is offered: | Bachelor of medicine and Surgery | | | | | |
| 8. | Teaching Language: | English | | | | | |
| 9. | Instruction location: | University of Science and Technology, Sana'a | | | | | |

III. Course Description

The fifteen-week surgical rotation is an intense clinical experience that introduces the 6th year students to the basic principles of surgery, ability to perform the clinical skills related to history taking & clinical examination of a surgical patient and identify, analyze, manage and/or refer clinical surgical problems. Students rotate on the wards of different teaching hospitals. During the rotations, students are exposed to medical encounters with patients with common surgical problems and are directly supervised by clinical instructors on the common surgical problems.

IV. Course Aims:

This course aims are to:-

1. Provide the student with the knowledge about the common and/ or important surgical emergencies.
2. Get the ability for the students to perform the clinical skills related to history taking & clinical examination of a surgical patient.
3. Enable him/her to identify, analyze, manage and/or refer clinical surgical problems in order to provide efficient, cost effective and humane patient care.
4. Recognize and apply an appropriate professional attitudes, ethical principles and communication skills in dealing with surgical patient.

V. Course Intended Learning Outcomes (CILOs) :

After completing this program, students would be able to:-

1. Describe the anatomy of surgically-important regions, organs and structures of the body.
2. List the clinical manifestations, complications, diagnostic modalities, outcome and treatment plans for common and/or important surgical problems, with special emphasis on emergencies and malignancies
3. Identify the principles of preoperative preparation and postoperative care especially in traumatic patients.
4. Interpret patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances
5. Interpret the results of commonly used surgical diagnostic procedures and Use the results of all the tests ordered to modify the problem list and the differential diagnosis accordingly and to formulate a relevant plan for management.
6. Obtain, perform and document a complete medical history and physical examination with emergency-directed examination for patients with common surgical emergencies and common surgical problem.
7. Develop appropriate plans of management for patients with common surgical emergencies and common surgical problem
8. Perform routine technical and therapeutic procedures needed for daily surgical practice under supervision and start appropriate initial therapy for patients with immediate life threatening conditions taking into account the patient safety and cost effectiveness of care.
9. Work effectively and cooperatively in a team
10. Formulate a focused clinical question based on real or hypothetical case, search effectively medical literature using electronic resources, retrieve appropriate information and appraise them using the principles of evidence based medicine.

| VI. Course Contents | | | | |
|-----------------------------------|-------------------------------------|--|-----------------|---------------|
| First: Theoretical Aspects | | | | |
| No. | Course Topics/Units | Sub-topics | No. of Lectures | Contact Hours |
| 1 | Basic surgery | -Major trauma & multiple traumatic patients -Wound healing -Shock (classification & causes) -Blood transfusion -Post operative care -I.V fluids -Homeostasis -Nutrition in --surgical patient -Postoperative complications -Preoperative preparation | 6 | 12 |
| 2 | Thyroid gland Breast | Anatomical & physiological review Congenital anomaly Simple goiter Hyper & hypofunction (hyper & hypothyroidism) Classification of thyroid tumor Thyroiditis Types of thyroidectomy and complications Classification of breast disease Types of mastitis Fibrocystic disease Nipple discharge Breast tumors | 6 | 12 |
| 3 | Spleen: Pancreas | Spleen: Splenectomy& its complication Splénomegaly Hypersplenism and hyposplenism Anatomy and physiology Splenic trauma Pancreas: Acute & chronic pancreatitis Classification of pancreas tumor Anatomy and physiology | 6 | 12 |
| 4 | Small bowel Colon -Anal canal | Small bowel: Diverticular disease Intestinal obstruction Inflammatory bowel disease Anatomy and physiology and congenital anomalies Mesenteric vascular occlusion. Colon: Acute Appendicitis Colorectal Carcinoma Diverticular disease | 6 | 12 |

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|---|---|--|---|----|
| | | Rectal prolapsed. GIT fistula GIT stoma care Anal canal: Piles Anal abscess Anal fistula Anal fissures | | |
| 5 | Thorax | Thorax Chest trauma (pneumothorax & hemothorax and flial chest) Empyema Classification of lung cancer Thoracic outlet syndrom | 6 | 12 |
| 6 | Plastic surgery Hernia | Plastic surgery: Principles of plastic surgery Burns Hernia: Surgical anatomy Direct & indirect inguinal hernia and other types of hernia | 6 | 12 |
| 7 | -Esophagus -The gall bladder and biliary tract | - Esophagus gastroesophageal reflux disease benign esophageal disorder esophageal neoplasm -The gall bladder and biliary tract Acute and chronic cholecystitis Cholelithiasis and choledocholithiasis Obstructive jaundice | 6 | 12 |
| 8 | -Urology | -Manifestation and investigation of urinary tract Urinary tract infections Congenital anomalies of urinary tract Urolithiasis Renal tumors Urinary bladder tumor Shistosomiasis and tuberculosis of urinary tract Scrotal swelling and scrotal tumor The prostate | 6 | 12 |
| 9 | Orthopediac | Principles of fractures and dislocations and their management Fractures and dislocation of upper limb Fractures and dislocation of lower limb Bone tumors Osteoarthritis and other joint disease Congenital bone disease Osteomyelitis Spinal fractures and dislocation | 6 | 12 |

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|-------|--|---|----|---------------|
| | | Nutritional and metabolic disorders of bones | | |
| 10 | Anesthesia | - Anesthesia Anesthesia apparatus Monitoring General anesthesia Regional anesthesia Spinal anesthesia Local anesthesia Complications of anesthesia Cardiopulmonary resuscitation Ventilation and intubation techniques | 6 | 12 |
| 11 | Maxillofacial surgery -parathyroid gland and calcium metabolism | -Maxillofacial surgery Face-palate-lips Teeth-gums and tongue Face trauma -parathyroid gland and calcium metabolism | 6 | 12 |
| 12 | -adrenal gland -cardiac surgery | -Adrenal gland - Cardiac surgery Congenital heart disease Acquired heart disease Principles of cardiac surgery | 6 | 12 |
| 13 | Liver | Surgical anatomy and liver functions Liver abscess Hydatid cyst Classification of liver tumor Portal hypertension Liver trauma | 6 | 12 |
| 14 | Head & neck Vascular surgery | Head & neck: D.D of neck swelling Salivary gland disease Vascular surgery: Varicous veins Deep vein thrombosis Acute & chronic arterial ischemia aneurysm | 6 | 12 |
| 15 | Stomach and central nervous system | -Stomach Anatomy and physiology .peptic ulcer Stomach tumors -central nervous system Brain tumor Intracranial infection Injuries to spinal cord and peripheral nerves Head injury | 6 | 12 |
| Total | | | 90 | 180h=12 CH |

| Clinical Aspects | | | |
|------------------|---|--------------------------|---------------|
| No. | Clinical topics | No. of Clinical sessions | Contact Hours |
| 1. | Basic surgery | 3 | 12 |
| 2. | Thyroid gland and Breast | 3 | 12 |
| 3. | Spleen and Pancreas | 2 | 8 |
| 4. | Small bowel, Colon and Anal canal | 2 | 8 |
| 5. | Thorax | 2 | 8 |
| 6. | Plastic surgery Hernia | 3 | 12 |
| 7. | Esophagus gall bladder and biliary tract | 2 | 8 |
| 8. | -Urology | 3 | 12 |
| 9. | Orthopediac | 2 | 8 |
| 10 | Anesthesia | 2 | 8 |
| 11 | -maxillofacial surgery -parathyroid gland and calcium metabolism | 2 | 8 |
| 12 | -adrenal gland - cardiac surgery | 2 | 8 |
| 13 | Liver | 2 | 8 |
| 14 | Head & neck Vascular surgery | 2 | 8 |
| 15 | Stomach and central nervous system | 2 | 8 |
| Total | | 34 | 135 h=3 C.H |